Assignment 02

Due: Thursday, October 4, 2012 at 11:59 p.m.

• For this and all subsequent assignments you relexacted to use the disign technique writing functions from scratch, including helper functions.

Do not copy the purpose directly from the assignment description. The purpose should be written in your own words and include refer **Transport** rnames of your functions.

The solutions you subman and the linear own work. Do not look up either full or partial solutions on the linear or in printed so

Do not send any code figure staff as an assignment submission.

Read each question car

- Download the interface file from the course Web page:
- For full marks, it is not sufficient to have a correct program. Be sure to follow all the steps of the design recipe, including the definition of constants and helper functions where appropriate.

Assignment Project Exam Help

Language level: Beginning Student

Coverage: Module 3

- 1. Write a function called double-string? that consumes a non-empty string and produces true when the string is formed by two identical strings, one immediately following the other, separated by at most one character. For example "type of and type of good of the grings, but "good", "edited", and "level" are not double strings. You may use functions (or modified versions of them) from your course notes to help solve this problem. However, if you use those functions, you must include acknowledgement of where they came from in the comments to the comments of the comments.
- 2. You have decided to take a walking tour of Bastakiya on the weekend. There are three tours available: the one-hour tour for 35 AED, the 90-minute tour for 55 AED, or the two-hour tour, which includes lunch, for 255 AED per person. Also, if you arrange to get 10 people or more as a group, you can get a 10% discount on the cost per person. For example if you have 12 people who want to take the 90-minute tour, then each would be charged 49.5 AED.

Write a function called tour-total that consumes two values: num-people and tour-type. The parameter num-people is a natural number indicating the number of people in your group. The parameter tour-type will be one of 'one-hour, '90-min, or 'two-hour, indicating which tour your group wants to take. The function should produce a number that is the total cost for all participants in the walking tour. For example: if 12 people want to take the 90-minute tour, the total cost would be 594.

*** It is very important that when you check symbols that you are using the exact values described in this question. For example 'one-hour is not the same as 'one-hour. If you are not exact, you could lose many correctness marks.

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3. All data in a computer is stored as a sequence of 0 sand 1's known arbits. The sequence can be referred to as a binary number. Sometimes bit errors may occur when transmitting a binary number. One way to detect errors is by checking the sequence of 1's in the parity of a binary number can be even or odd. If it is even, that means the an odd number of 1's in the binary number. If it is odd, that means there is an odd number of 1's in the parity is supposed to be even or odd, then you can check the business and the sequence of 0 sand 1's known about 1 supposed to be even or odd. If

Write a function called bi under the umes two values bin-num and parity. The parameter bin-num is a string of length four that contains only 0's and 1's. The parameter parity will be true for even parity and false for odd parity. The function produces true when the bin-num does not match the parity and false otherwise. For wanter of the parity of the

A solution that simply checks each of the 16 possible binary numbers and produces true or false accordingly, will not receive the second produces true or false accordingly, will not receive the second produces true or false accordingly, will not receive the second produces true or false accordingly, will not receive the second produces true or false accordingly.

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